

**L1 C/A PRN CODE ASSIGNMENTS**

PRN Signal Number	G2 Delay (Chips)	Initial G2 Setting (Octal) ⁱ	First 10 Chips (Octal) ⁱ	PRN Allocations	Orbital Slot	Effective Date
1 – 63	See IS-GPS-200 ⁱⁱ	See IS-GPS-200 ⁱⁱ	See IS-GPS-200 ⁱⁱ	Reserved for GPS	See NAVCEN ⁱⁱⁱ	See NAVCEN ⁱⁱⁱ
64 – 119	See IS-GPS-200 ⁱⁱ	See IS-GPS-200 ⁱⁱ	See IS-GPS-200 ⁱⁱ	Reserved for GBAS & other augmentation systems	N/A	Current
120 – 138	See Below	See Below	See Below	Reserved for SBAS	See Below	Updated
139 – 158	See Below	See Below	See Below	Reserved for SBAS expansion/testing	See Below	Updated
159 – 210	See Below	See Below	See Below	Reserved for other GNSS & other applications	See Below	Current
Reserved for Satellite-Based Augmentation System (SBAS) (PRNs 120-138)						
120	145	1106	0671	EGNOS (INMARSAT 3F2)	15.5 W	Current
121	175	1241	0536	EGNOS (INMARSAT 3F5)	25 E	Active until Apr 2024
122	52	0267	1510	Unallocated	---	---
123	21	0232	1545	EGNOS (ASTRA 5B)	31.5E	Active until Nov 2021
124	237	1617	0160	EGNOS (Reserved)	---	Active until Apr 2024
125	235	1076	0701	SDCM (Luch-5A)	16 W	Active until Dec 2021
126	886	1764	0013	EGNOS (INMARSAT 4F2)	25 E	Active until Apr 2019
127	657	0717	1060	GAGAN (GSAT-8)	55 E	Active until Sep 2020
128	634	1532	0245	GAGAN (GSAT-10)	83 E	Active until Sep 2020
129	762	1250	0527	MSAS (MTSAT-1R or -2) ^{iv}	140 E	Active until Jan 2020
130	355	0341	1436	Unallocated	---	---
131	1012	0551	1226	WAAS (Satmex 9)	117 W	Active until Mar 2025
132	176	0520	1257	Unallocated	---	---
133	603	1731	0046	WAAS (INMARSAT 4F3)	98 W	Active until Oct 2019
134	130	0706	1071	Unallocated	---	---
135	359	1216	0561	WAAS (Intelsat Galaxy 15)	133 W	Active until Sep 2017
136	595	0740	1037	EGNOS (ASTRA 4B)	5 E	Active until Nov 2021
137	68	1007	0770	MSAS (MTSAT-2 or -1R) ^{iv}	145 E	Active until Jan 2020
138	386	0450	1327	WAAS (ANIK-F1R)	107.3	Active until Sep 2017
Reserved for SBAS expansion/testing (PRNs 139 – 158)						
139	797	0305	1472	GAGAN (GSAT-15)	93.5 E	Active until Mar 2025

**L1 C/A PRN CODE ASSIGNMENTS**

PRN Signal Number	G2 Delay (Chips)	Initial G2 Setting (Octal) ⁱ	First 10 Chips (Octal) ⁱ	PRN Allocations	Orbital Slot	Effective Date
140	456	1653	0124	SDCM (Luch-5B)	95 E	Active until Dec 2021
141	499	1411	0366	SDCM (Luch-4)	167 E	Active until Dec 2021
142	883	1644	0133	Unallocated	---	---
143	307	1312	0465	Unallocated	---	---
144	127	1060	0717	Unallocated	---	---
145	211	1560	0217	Unallocated	---	---
146	121	0035	1742	Unallocated	---	---
147	118	0355	1422	Unallocated	---	---
148	163	0335	1442	Unallocated	---	---
149	628	1254	0523	Unallocated	---	---
150	853	1041	0736	Unallocated	---	---
151	484	0142	1635	Unallocated	---	---
152	289	1641	0136	Unallocated	---	---
153	811	1504	0273	Unallocated	---	---
154	202	0751	1026	Unallocated	---	---
155	1021	1774	0003	Unallocated	---	---
156	463	0107	1670	Unallocated	---	---
157	568	1153	0624	Unallocated	---	---
158	904	1542	0235	Unallocated	---	---
Other Global Navigation Satellite Systems (GNSS) & Other Applications (PRNs 159 – 210)						
159	670	1223	0554	Unallocated	---	---
160	230	1702	0075	Unallocated	---	---
161	911	0436	1341	Unallocated	---	---
162	684	1735	0042	Unallocated	---	---
163	309	1662	0115	Unallocated	---	---
164	644	1570	0207	Unallocated	---	---
165	932	1573	0204	Unallocated	---	---
166	12	0201	1576	Unallocated	---	---
167	314	0635	1142	Unallocated	---	---
168	891	1737	0040	Unallocated	---	---
169	212	1670	0107	Unallocated	---	---
170	185	0134	1643	Unallocated	---	---
171	675	1224	0553	Unallocated	---	---
172	503	1460	0317	Unallocated	---	---

**L1 C/A PRN CODE ASSIGNMENTS**

PRN Signal Number	G2 Delay (Chips)	Initial G2 Setting (Octal)ⁱ	First 10 Chips (Octal)ⁱ	PRN Allocations	Orbital Slot	Effective Date
173	150	1362	0415	QZSS – IMES ^{vi}	Ground	Active until Nov 2017
174	395	1654	0123	QZSS – IMES ^{vi}	Ground	Active until Nov 2017
175	345	0510	1267	QZSS – IMES ^{vi}	Ground	Active until Nov 2017
176	846	0242	1535	QZSS – IMES ^{vi}	Ground	Active until Nov 2017
177	798	1142	0635	QZSS – IMES ^{vi}	Ground	Active until Nov 2017
178	992	1017	0760	QZSS – IMES ^{vi}	Ground	Active until Nov 2017
179	357	1070	0707	QZSS – IMES ^{vi}	Ground	Active until Nov 2017
180	995	0501	1276	QZSS – IMES ^{vi}	Ground	Active until Nov 2017
181	877	0455	1322	QZSS – IMES ^{vi}	Ground	Active until Nov 2017
182	112	1566	0211	QZSS – IMES ^{vi}	Ground	Active until Nov 2017
183	144	0215	1562	QZSS (QZS1) ^{vii}	A1	Active until Aug 2016
184	476	1003	0774	QZSS (Reserved)	TBD	---
185	193	1454	0323	QZSS (Reserved)	TBD	---
186	109	1665	0112	QZSS (Reserved)	TBD	---
187	445	0471	1306	QZSS (Reserved)	TBD	---
188	291	1750	0027	QZSS (Reserved)	TBD	---
189	87	0307	1470	QZSS (Reserved)	TBD	---
190	399	0272	1505	QZSS (Reserved)	TBD	---
191	292	0764	1013	QZSS (Reserved)	TBD	---
192	901	1422	0355	QZSS (Reserved)	TBD	---
193	339	1050	0727	QZSS (QZS1) ^{vii}	A1	Active until Aug 2016
194	208	1607	0170	QZSS (Reserved)	TBD	---
195	711	1747	0030	QZSS (Reserved)	TBD	---
196	189	1305	0472	QZSS (Reserved)	TBD	---
197	263	0540	1237	QZSS (Reserved)	TBD	---
198	537	1363	0414	QZSS (Reserved)	TBD	---
199	663	0727	1050	QZSS (Reserved)	TBD	---
200	942	0147	1630	QZSS (Reserved)	TBD	---
201	173	1206	0571	QZSS (Reserved)	TBD	---
202	900	1045	0732	QZSS (Reserved)	TBD	---
203	30	0476	1301	Unallocated	---	---
204	500	0604	1173	Unallocated	---	---
205	935	1757	0020	Unallocated	---	---
206	556	1330	0447	Unallocated	---	---
207	373	0663	1114	Unallocated	---	---
208	85	1436	0341	Unallocated	---	---

**L1 C/A PRN CODE ASSIGNMENTS**

PRN Signal Number	G2 Delay (Chips)	Initial G2 Setting (Octal)ⁱ	First 10 Chips (Octal)ⁱ	PRN Allocations	Orbital Slot	Effective Date
--------------------------	-------------------------	---	---	------------------------	---------------------	-----------------------

209	652	0753	1024	Unallocated	---	---
210	310	0731	1046	Unallocated	---	---

Abbreviations:

EGNOS – European Geostationary Navigation Overlay Service

GBAS – Ground-Based Augmentation System

MSAS – MTSAT Space-Based Augmentation System

QZSS – Quazi-Zenith Satellite System

TBD – To Be Determined

GAGAN – GPS-Aided Geo-Augmented Navigation

IMES – Indoor Messaging System

PRN – Pseudorandom Noise

SDCM – System of Differential Correction and Monitoring

ⁱ In the octal notation for the first 10 bits as shown in this column, the first digit (1/0) represents the first bit and the last three digits are the conventional octal representation of the remaining 9 bits.

ⁱⁱ For further information see the latest edition of IS-GPS-200 at <http://www.gps.gov/technical/icwg/>.

ⁱⁱⁱ For current PRN assignments and orbital information for GPS satellites please see the Navigation Center website at <http://www.navcen.uscg.gov/?Do=constellationStatus>.

^{iv} When MTSAT-2 is unavailable, MTSAT-1R will broadcast two PRN signals-each of which is received from an independent uplink station-in order to maintain continuity in case of uplink signal attenuation or equipment failure at either uplink station. Similarly, MTSAT-2 will broadcast two PRN signals when MTSAT-1R is unavailable. When MTSAT-1R and MTSAT-2 are available, MTSAT-1R will broadcast PRN 129 signal only and MTSAT-2 will broadcast PRN 137 signal only.

^v This PRN is reserved for the requesting system pending final approval as of publication of this document.

^{vi} This PRN number is designated for low-power terrestrial applications solely within Japan.

^{vii} QZSS A1 => RAAN = 0, Argument of Perigee = 270, Mean Anomaly = 324, at Epoch 31Dec 07 00:00:00.